# DESCIRPTIONS OF NEW SPECIES OF LIZARDS AN1) OF A TREE-FJOG FROA NORTH-EASTERN QUEENSSLAND. 

Dy Di, A. (iUNTHLEti, F.R.s.<br>(Plates X1., X1l.)

MR. W. S. DAY, who has collected in dustralia and New Gumea fire the Tring Musenm for sume years past, has sent to me a few reptiles which he "htained in the Bartle Frere Momatains. Although specimens from the same district seem to have previonsly rached the Sydney and Brisbine Mnseums, and have been aldy described in Anstralian Jonruals, I foud in the consigument sent by Mr. Day some interestiug forms which 1 am mable to ileutify from the descriptions published.

Carphodactylus gen. now. Geckon.
)higits rather slender, without any dilated portion, not lringed, with a row of transverse lamellae below. Claws jrojecting, rooted between five small scutes, a pair on each side, and a median mpaired one above. The two or three distal joints are angularly bent. Bolly covered with flat, very minnte granules: larmer tufercles along the median line of the back, furming it sort ol crest, Tait compressed, tapering.

## 1. Carphodactylus laevis :1. nov:

(Plate Xl.)
Habit slender. Head broad, very dintinct from neek, depressed, concave between the eyes and in the loreal region. (rown of the head bony and tinely rugose, withont tubereles. Eyes large, directel obliquely forwards, about midway between ear-opening and nostril : upper eye-lid thin, with sharp projecting urargin. Nostril small, in the binder edge of a rather large nasal: masals separated ly a patch of small flat seutes. Ear-oprening vertical, oral, abont one-fourth the size of the eye. Rostral large, undivided : upper labials seveuteen, lower fonrteen ; median lower labial large, pentagonal, withont post-mentals. Body nearly smooth, the granulations heing very minute and flat. Neck with larger tubercles, forming a triangular pateh, the apex of which passes into a median dorsal stripe of tuberelex, which simulates a crest, and does not extend on the bail. A [ateh of small sentes in the pubie regiom. No pracanal pores. la ges slemdor, gramular, with minnte tubereles.

Tail not guite as long as the body, strongly momandan and conpressel in its proximal portion, the distal being very thin and tapering : there is no distinct boundary between the two portions. The whole tail is unifomly covered with small flat gramulations.

Light ebestnut-brown, with scattered black sionts, ahont the size of the eallopening, on the back and sides. Lower parts whitish, with small indistinct
round white spots on the lower gart of the sides. Tail morly black, with five broad whitish rings. 'loes irecgularly amulated with whitish.


## $\therefore$ Phyllurus lichenosus sp. nur.

## (Plate XII.)

('losely allied to Dhyllur\%s platumes, with which it agrees in the general furm of the head and hody. The diameter of the eye is considerably less than its distance from the ear, and scarcely one-half of its listance from the end of the suont. Earopening a narrow vertical slit. Nostril hehind the rostral and supranasal, and above the first labial. Rostral divided in the middle, very broad ; median lower labial large, without post-mentals. Thirteen upper and ten lower labials, withont counting some gramules round the corner of the nouth. Upper prarts covered with minute granules, with larger conical tubercles which form abont ten longitudiual series: the series on the border letween the side and abdomen contains the most slender and longest tuberelen, all heing soft and flexible. Lower parts with minute flat gramules, those in the pubic and aute-pubic regions being enlarged. No spine above the ere.

Tail as long ass the trunk, greatly depressed, leaf-like, ending in an abrupty attenated and tapering portion; its margins are decply scalloped. As to the mperside, the middle muscular part is finely gramuar, and the lateral membranaceons part provided with two series of strong conial tubercles; the edges of the lobes are beset with thin spines. The attemmed part of the tail is armed with four series of strong conical tubercles. Lower parts of the tail miformly gramara, like the ablumen.

Grevish, with symmetrical brown markings, confluent across the back, where they form lour broad cross-hands, the first oeemping the neck.


The intertment - of the tail of this species are still more highly specialised for protective jurposes than in Phyllarns pluturns, of which I have seen specimens with intact tail, apmently not reprobuced. In fiact the likeness to its surbomdings of this geckn, when lying liat against a lichen-grown bark of a tree or a rock, mast be perfect. In the collection of the Natural Itistmy Masemm are three specinens




The question whether this species is idential with drymnolfuctylus comutus of Ogilhy (hecords Austrul. I/us. II. 1). ') must he negativer at present, although this speries is reported from the same district, the Bellenden-Ker. In the full descripfion which Mr. (gilby gives of it, the unthor mentions a strong spinate knob, surmounted ly a conical tuberole behind the eye: this is absent in onr species. Beside other differential characters, I may reter to the form of the interortital region of $1 i$. cormutus, which is descritecl as a decy narrow forsa, owing to the much enlarged and elevated supraciliary wion. Its tail is deseribet as covered above by minute gramular scales, intermixed, excejt ou a rertelmal protrle of the leaf-like expansion, with soft trimequlur appendages. In onr species the gramated part, which is devoil of tnbercles, extends as a broud brned along the whole length of the muscular portion of the expanded tail.

There remains the question whether the specimens refered to our species represent, after all, only a certain condition of growth of the tail of Pheylheres pluturts. This species was originally described from New Sonth Wales specimens, and may he readily distingnished by the absence of the series of slender tubercles which flonks the abdomen of $P$. lichenosus. In the majority of the sonthern specimens which I have seeu, the tatil is reprohnced and of that aprearance which has led to the description of the nominal form, $I^{\prime}$. incrmis. However, in a few specimens the tail is apparently intact, showing quite a different arrangement of the tnbercles, as shown in fig. A of Plate Xll. The tubercles are scatteren all over the surface, except in a marron melian line, and the margin of the leat-like expranion is not lobuate. I lave never scen a specimen of $P$. phonrus like the one mentioned ly Mr. Ogilly (l.r. p. 10), which had a non-tubercular vertebral putch. Also, the margin of the tail of 1 'ho platumes is remarkably thiek and swollen.

One of the specimens in the Natural History Mnsemm (the me without locality, as mentioned above, and mogistered ir.4.16.4) is especially interesting, as it has the tail reprotuced. I have fignred its tail on Plate X1l. fig. B. It is qnite different from a reproduced tail of I'h. phaturns: it is elongate leaft-shaped, not terminating iu a long cylindrical portion. Its margin is broad, very thin, and not scalloped: in this specimen no tnleereles or spines whatever are developed.

## 3. Egernia frerei sp, nov.

No couvel grome hehind the noxtril. Nasals slightly sequrated from uach other; pusterior frontals forming a suture together ; vertical coutracted in the middle, twice as long as broal, louger and rather larger than the melian occipitat: five supravenars, of which the second is the largest: seven supraciliaries: a complete ring of infranculars, shutting the labials out of the orbit. Threc pairs of muchals, of which the two posterior are very narrow barropening as large an the eye, with three lobules in fromt, of which the upher is the larqest and olotnedy ramede : the two athers small.

Thirty-fome longitndinal rows of swale's remud the fordy: the densal are the largest, ohtusely hicarinate; the lateral atre the same size as the ventral. As to the seales on the side of the neck, thone behind the ear and in from of the shonker are very small, and the intermediate visibly smaller than those on the side of the tronk. Six praeanals.

Tail depressect harar its ront, eompressed farther hehind. The eompressed
protion is chuthed above with a double serins of larger scales, and below with a single median series.

The adpressed limbs overlap.
Brown, with faint blackish longitudinal bauds along the dorsal series of scales : sides blackish, with sattered bluish white soots, each contined to a single scale. Lower parts whitish, with undulated backish transverse lines across the throat and chest.


This species is certainly distinct from all which I know by autopsy, and camot be referred to any of the other described species, differing by the number or structure of the scales, scutellation of the head, etc.

## 4. Hyla dayi sp. nov.

Tongue subovate, slightly nicked behind. Vomerine teeth in two tramserse serles, behind the level of the choanae. Head much dejressed ; snont rather longel than the diameter of the orbit ; canthos rostratis distinct, loreal region sloping ontwards; interorbital space broader than the uper eye-lid; tympanm distinct, one-fourth the area of the eye. Fingers strongly webbed, the web extending to the pemultimate phalanx of the third finger; toes fully webbed. Dises of the fingers not quite as large as the tympanm ; it fold along the inner edge of the tarsus. The distance between rent and suont cumals that between vent and heel. Skin smooth above, granlar below ; a fold above the tympanm, none across the chest. Uniform brownish above (in spirit), whitish below.

Distance of shout from vent . . . . 52 millimetres.
Length of hind-limis. . . . . . ! 2 "

## EXPGANATHON OF THE PGATES.

lhate X1. Lpper tund side views of Corphodactylus leceis. Side and lower views of third toe (enlarged).

1'late XII. Phyllervers lichenosus. Fig. A. Upier view of tail of I'h. phetmens. Fig. B. Upper view of tail of 1 'h. lichenosme (reproduced).

